28 APR 2006 U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE ORM PTO-1390 (Modified) REV. 7-2005) 8119-97327 TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (If known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) NOT YET ASSIGNED CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL FILING DATE PRIORITY DATE INTERNATIONAL APPLICATION NO. 29 October 2003 28 October 2004 PCT/IB2004/052227 TITLE OF INVENTION PROCESSING OF METAL ALLOYS IN A SEMI-SOLID STATE APPLICANT(S) FOR DO/EO/US Hristov Lillian IVANCHEV and Daniel Jeremias WILKINS Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 1 This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 2. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), 3. (9) and (24) indicated below. The US has been elected (Article 31). 4. A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) 5. is attached hereto (required only if not communicated by the International Bureau). a. 🗆 b. 🗆 has been communicated by the International Bureau. c. 🗆 is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). 6. а. 🛚 is attached hereto. b. 🗆 has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. c. 🗆 have not been made; however, the time limit for making such amendments has NOT expired. d. 🗆 have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 8. An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 9. An English language translation of the annexes to the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371 (c)(5)). A copy of the International Preliminary Examination Report (PCT/IPEA/409). \boxtimes 12. A copy of the International Search Report (PCT/ISA/210). Items 13 to 23 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 15. X A FIRST preliminary amendment. 16. A SECOND or SUBSEQUENT preliminary amendment. 17. A substitute specification. 18. A power of attorney and/or change of address letter. 19. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 20. A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). 21.

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U.S. APPLIONTIC	No (if Rhown, See 37 CER 9)		(a) INTERNATIONAL APPLICATION NO.			ATTORNEY'S DOCKET NUMBER		
NOT Y	TET ASSIGNED	T ASSIGNED		PCT/IB2004/052227			8119-97327	
23. Other items or information:								
The following fees have been submitted:						CALCULATIONS	PTO USE	
24. Basic national fee\$300						\$ \$300.00		
25. Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article All other situations								
26. Search fee (37 CFR 1.492(b)) If the written opinionof the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority						,		
TOTAL OF 24, 25 and 26 =						\$ \$1,000.00		
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets Number of each additional 50 or RATE						_		
		fraction	thereof (round up to a wh					
- 100 =	0 /50 =		0		× \$250.00	\$ \$0.00		
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).						\$		
CLAIMS	NUMBER F	ILED	NUMBER EXT	'RA	RATE			
Total claims	16	- 20 =	0	x	\$50.00	\$ \$0.00		
Independent clair	ns 4	- 3=	1	х	\$200.00	\$ \$200.00		
MULTIPLE DEPENDENT CLAIMS (if applicable) ☐ + \$360.00						\$ \$0.00		
TOTAL OF ABOVE CALCULATIONS =						\$ \$1,200.00		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.						\$ \$0.00		
SUBTOTAL =						\$ \$1,200.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						\$ \$0.00		
TOTAL NATIONAL FEE =						\$ \$1,200.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +						\$ \$0.00		
TOTAL FEES ENCLOSED =						\$ \$1,200.00		
				<u></u>		Amount to be	\$	
						Amount to be	\$	

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to cover the above fees is enclosed. A check in the amount of \$ \$1,200.00 Please charge my Deposit Account No. in the amount of \$ A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-0920 . A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending, status. SEND ALL CORRESPONDENCE TO: Thopmas R. Vigil, Esq. Thomas R. Vigil WELSH & KATZ, LTD. NAME 120 South Riverside Plaza, Floor 22 Chicago, IL 60606-3912 24,542 REGISTRATION NUMBER April 28, 2006 DATE

10/577782 IAP17 Rec'd PCT/PTO 28 APR 2006

PATENT APPLICATION – IVANCHEV ET AL.
Title: PROCESSING OF METAL ALLOYS IN A SEMI-SOLID STATE
ATTORNEY DOCKET NO. 8119-97327

<u>CERTIFICATE OF MAILING BY "EXPRESS MAIL"</u> (37 CFR 2.198)

Express Mail No. EV 843966835 US

I hereby certify that the following papers (identified below) are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 2.198 in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on this 28th day of April, 2006.

Patents,	P. O. Box 1450, Alexandria, VA 22313-1450, on this 28" day of April, 2006.
CARL S	TANLEY.
(Signatu	Interest of Person Mailing Correspondence)
Enclose	d:
√ c	ertificate of Mailing (1 page);
	ransmittal Letter to the United States Designated/Elected Office Form PTO-390 (3 pages, in duplicate);
D	ata Sheets (4 pages);
/_ P	reliminary Amendment (7 pages);
/ c	Copy of Title Page of PCT WO 2005/042187;
In	nformation Disclosure Statement (2 pages);
	nformation Disclosure Citation (Form PTO 1449) listing 1 U.S. Patent; 3 Foreign atents; 1 Other and International Search Report PCT/IB2004/052227;
	one check in the amount of \$600.00; One check in the amount of \$400.00; One heck in the amount of \$200.00;
\	ddressed Postage Paid Receipt Postcard.